

The PG-300 is a programmer specially designed for the α JUNO-1 and the α JUNO-2.

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RADIO AND TELEVISION INTERFERENCE

"Warning - This equipment has been verified to comply with the limits for a Class B computing device, pursuant to Subpart J, of Part 15, of FCC Rules Operation with non-certified or non-verified equipment is likely to result in interference to radio and TV reception."

The equipment described in this manual generates and uses radio-frequency energy. If it is not installed and used properly, that is, in strict accordance with our instructions, it may cause interference with radio and television reception.

This equipment has been tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J, of Part 15, of FCC Rules. These rules are designed to provide reasonable protection against such a interference in a residential installation. However, there is no guarantee that the interference to radio or television reception, which can be determined by turning the equipment does cause interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by the following

Disconnect other devices and their input output cables one at a time. If the interference stops, it is caused by either the other device urits I O cable.
 These devices usually require Roland designated shielded I O cables. For Roland devices, you can obtain the proper shielded cable from your dealer. For non Roland devices, contact the manufacturer or dealer for assistance.

If your equipment does cause interference to radio or television reception, you can try to correct the interference by using one or more of the following measures

- Turn the TV or radio antenna until the interferences stops
- Move the equipment to one side or the other of the TV or radio.
- Move the equipment farther away from the TV or radio
- Plug the equipment into an outlet that is on a different circuit than the TV or radio (That is, make certain the equipment and the radio or television set are on circuits controlled by different circuit breakers or fuses.)
- Consider installing a rooftop television antenna with coaxial cable lead-in between the antenna and TV.

If necessary, you should consult your dealer or an experienced radio television technician for additional suggestions. You may find helpful the following booklet prepared by the Federal Communications Commission

"How to Identify and Resolve Radio TV Interference Problems"

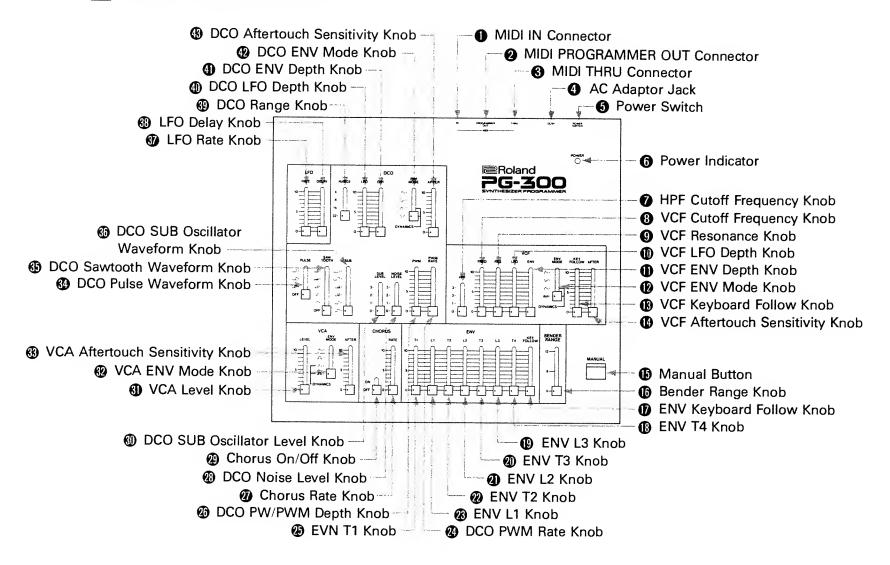
This booklet is available from the U.S. Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.

Please read the separate volume "MIDI", before reading this owner's manual.

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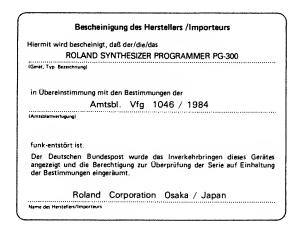
1 PANEL DESCRIPTION



The PG-300 is the programmer specially designed for synthesizing the tone colors of the α JUNO-1 and the α JUNO-2.

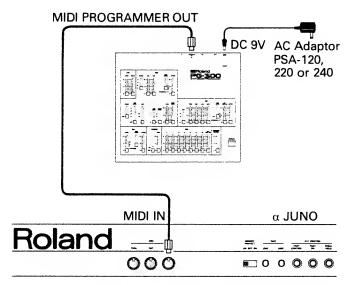
By using the PG-300, a tone color can be much more easily and quickly edited or created from scratch.

This tone modifying function of the PG-300 is executed by the MIDI Exclusive messages which are the specific messages used by Roland. Therefore, the PG-300 cannot control the tone colors of other manufacturers' synthesizers. Even the Roland synthesizers cannot be used with the PG-300, unless they can recognize the MIDI Exclusive messages.



2 OPERATION

To use the PG-300 in the setup with the α JUNO, set the MIDI channel of the α JUNO to 1. (Refer to the α JUNO's owner's manual.)



The PG-300 controls the α JUNO's tone colors using the MIDI Exclusive message. So, be sure to turn the MIDI Exclusive message in the α JUNO's MIDI Functions ON.

* Refer to the α JUNO's owner's manual on page 32.

However, it is also possible to set the receive channel of the α JUNO other than 1. (Refer to "Changing MIDI Channels" on page 6.)

1. Power Up

OPERATION

Switch on the α JUNO, then the PG-300.

The Power Indicator 6 will light up.

2. Tone Edit

This Tone Edit function is useful for slightly modifying the tone color.

OPERATION

- ① Select the tone color to be modified on the α JUNO.
- ② Using the knobs on the Programmer, edit the tone color.

If you move a desired knob even slightly, its setting position of that tone color will be deleted and ready to be manually controlled.

* This Editing function does not automatically rewrite the existing tone color, therefore, if calling the same tone color later, the unchanged original tone color will be heard. To retain the edited tone color, take an appropriate writing procedure on the α JUNO.

* While editing a parameter with the PG-300, even if the current set positions of the knobs or switches are exactly what you desire, change the position once then return it. Otherwise, the parameter value might not be affected by the PG-300, thereby remain unchanged.

3. Creating a new Tone Color

This function is useful for synthesizing a tone color from scratch.

OPERATION

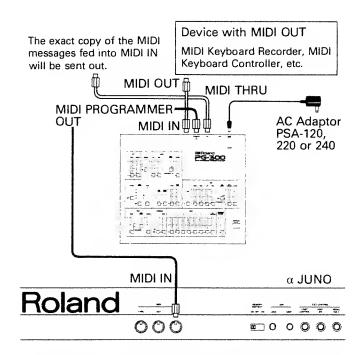
Push the Manual Button (b).

Now, the whole panel setting of the PG-300 decides the tone color. That is, existing tone color in memory has nothing to do with your sound synthesis. You can make a complete new tone color from scratch.

* The tone color you have synthesized will not be retained unless a proper writing procedure is taken on the α JUNO. The writing operation, however, inevitably erases a tone color.

3 APPLICATION

1. Controlling the α JUNO with MIDI Keyboard Recorder



To control the α JUNO with a MIDI device, connect the MIDI OUT of the MIDI device to the MIDI IN Connector \bullet on the Programmer.

* The PG-300's MIDI messages for tone color editing and the messages fed into the MIDI IN are mixed and sent through the MIDI PROGRAMMER OUT.

2. Changing MIDI Channels

By using the DCO SUB Oscillator Level Knob and the DCO Noise Level Knob you can set any of the MIDI Channels 1 to 16. (See the Table 1 shown below.)

OPERATION

1) Turn the PG-300 off.

With the aid of the table shown below, set the two switches to the appropriate numbers.

						M	D	С	ha	nr	el					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DCO SUB Oscilla- tor Level Knob	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3
DCO Noise Level Knob (3)	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3

- * If you switch the PG-300 off while playing the keyboard, various troubles will occur, such as the played keys keep crying even after the keys are released.
- ② While holding the Manual Button **(b)** down, switch the PG-300 on.

Now, set the α JUNO to the same MIDI Channel as you have set in above operation.

IMPORTANT NOTES

POWER

- When setting up the PG-300 with the α JUNO, turn both of them off.
- This unit might not work properly if turned on immediately after turned off. If this happens, simply turn it off and turn it on again a few seconds later.
- Be sure to use the supplied AC Adaptor. Using any other adaptor may cause trouble.

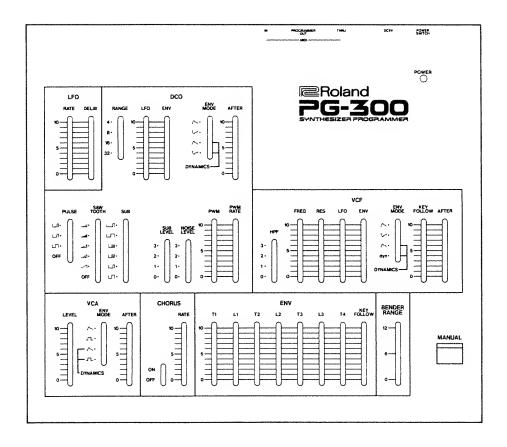
LOCATION

 Avoid using the α JUNO in excessive heat or humidity or where it may be affected by direct sunlight or dust.

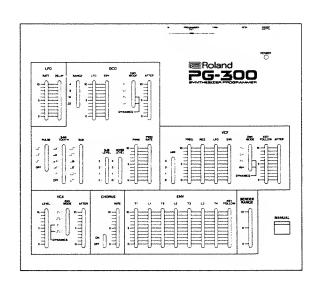
CLEANING

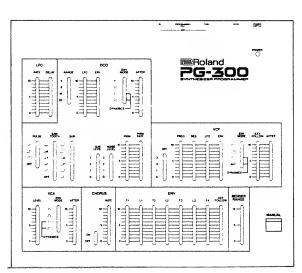
- Clean the unit with only soft cloth and mild detergent.
- Do not use solvents such as THINNER.

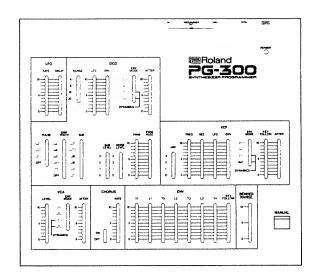
Setting Memo

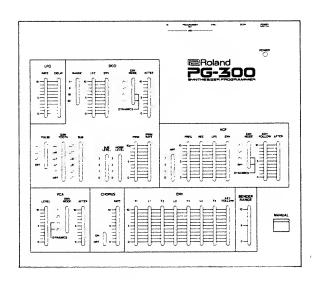


Title:			
Model:			
Memory, Car	tridge ()	
Bank:	Patch:		
Memo:			









4 SPECIFICATIONS

Front Panel

LFO Rate Knob

LFO Delay Knob

DCO Range Knob

DCO LFO Depth Knob

DCO ENV Depth Knob

DCO ENV Mode Knob

DCO Aftertouch Sensitivity Knob

DCO Pulse Waveform Knob

DCO Sawtooth Waveform Knob

DCO SUB Oscillator Waveform Knob

DCO SUB Oscillator Level Knob

DCO Noise Level Knob

DCO PW/PWM Depth Knob

DCO PWM Rate Knob

HPF Cutoff Frequency Knob

VCF Cutoff Frequency Knob

VCF Resonance Knob

VCF LFO Depth Knob

VCF ENV Depth Knob

VCF ENV Mode Knob

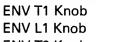
VCF Keyboard Follow Knob

VCF Aftertouch Sensitivity Knob

VCA ENV Mode Knob

VCA Aftertouch Sensitivity Knob

VCA Level Knob



Chorus On/Off Knob

Chorus Rate Knob

ENV T2 Knob

ENV L2 Knob

ENV T3 Knob

ENV L3 Knob ENV T4 Knob

ENV Keyboard Follow Knob

Bender Range Knob

Manual Button

Power Indicator

Rear Panel

Power Switch

AC Adaptor Jack

MIDI IN Connector

MIDI PROGRAMMER OUT Connector

MIDI THRU Connector

• Consumption 200 mA (DC 9V)

• Weight 1.7 kg/3 lb 12 oz (without the Adaptor)

• **Dimensions** 267(W) × 55(H) × 238(D)mm 10-1/2" × 2-1/8" × 9-1/8"

●Accessories AC Adaptor PSA-120, 220 or 240 MIDI/SYNC Cable × 1



MIDI Implementation PG-300 MODEL

Value 0 = ENV normal 1 = ENV inverted	2 = ENV normal with dynamics 3 = ENV inverted with dynamics 0 = ENV normal 1 = ENV inverted 2 = ENV inverted 3 = dynamics	0 = ENV 2 = ENV 2 = ENV with dynamics 3 = 3 = 3 = 3 = 3 = 3 = 3 = 3 = 3 = 3 =	0 1 3 3 0 1 3 3 0 1 0 0 F F 1 1 0 N F	0 - 127 0 - 127 0 - 127 0 - 127 = PW manual 1 - 127 = PWM IFO RATE	0 - 127 0 - 12		
Parameter format # Function 0 0CO ENV MOOE	VCF	2 VCA ENV MODE 3 DCO WAVEFORM PULSE 4 OCO WAVEFORM SANTOOTH 5 OCO RANGE 6 OCO RANGE		11 0CO LFO MOO OEFTH 12 0CO ENV MOD OEFTH 13 0CO AFFER OEFTH 14 DCO PW/PWM OEFTH 15 0CO PWM RATE	16 VCF CUTOFF FREQ 17 VCF REBONANCE 18 VCF LFO MOD OBETH 20 VCF REN WOD DEETH 21 VCF AFTER OBETH 22 VCA LEVEL 23 VCA LEVEL 24 LFO RATE 25 LFO GELAY TIME 25 LFO OBLAY TIME 26 EVU LI		
1. TRANSMITTEO DATA	Lus 11110 Note	This unit stops transmitting Active Sense message if this unit detects Non Active condition on MIDI IN. 2. RECOGNIZEO RECEIVE OATA Status Second Third Oescription Active Sensing	3. TRANSMITTEO EXCLUSIVE MESSAGES	All Tone Parameters witho	### Description ### Application	3.3 Individual Tone Parameter (IPR) When the volume controllers or switches are changed. Byte	3. Turn power on while holding the 'MANUAL Button' down.

Programmer for JU-1,JU-2

MIDI Implementation Chart PG-300 MODEL

Version : 1.1 Date : Jan. 27 1986

	Function	Transmitted	Recognized	Remarks
Basic Channel	Default Changed		××	
Mode	Default Messages Altered	*** ** ** ** ** ** **	××	
Note Number	True voice	***** **** *****	×	
Velocity	Note ON Note OFF	* *	××	•
After Touch	Key's Ch's	* *	××	
Pitch Bender		*	×	
Control		*	×	
1		-		
Prog Change	True ##	*******	××	
System Exclusive	sive	0	×	Tone parameter
System	Song Pos Song Sel Tune	* * *	×××	
System Real Time	Clock Commands	* *	××	
Aux Loc All Mes- Act sages Res	Local ON OFF All Notes OFF Active Sense Reset	* * ○ *	××○×	
Notes		*: This unit transmits all received MIDI mes **: Used as 'Unit #' in Exclusive Messages.	: This unit transmits all received MIDI messages except Active Sense. : Used as 'Unit #' in Exclusive Messages.	ept Active Sense.

Mode 1 : OMNI ON. POLY Mode 3 : OMNI OFF, POLY

Mode 2 : OMNI ON, MONO Mode 4 : OMNI OFF, MONO

: Yes

Roland 10203

UPC 10203

